

NBP CEM: Hourly Data Summary

Period: 07/16/03 00:00:59 To 07/17/03 23:59:59, Records = 34

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		Mthd	0	0	0	10	9	10	10	6	5	5	5	0	01	5	0	01	01	0	6	6	01	5	01	6	6	5	5	5	01	01	5 5	5
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		mdd	317.4	321.8	338.9	341.9	337.3	352.9	464.6	357.1	317.4	277.9	274.3	276.6	282.4	283.4	284.8	281.9	275.7	281.1	282.1	280.4	282.0	285.8	289.6	276.7	277.9	282.0	283.6	284.6			297.2	
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;	Š 4	500	0.020	0.040	0.007	0.033	0.07	0.080	0.767	0.656	0.622	0.595	0.577	0.589	0.586	0.594	0.588	0.581	598	0.594	0.579	0.588	0.596	0.604	0.589	0.580	0.583							
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0 20 00 1800	P75 - Method Codes: 19 - Sample Interface Malfunction 01 - Primary Monitoring System 20 - Corrective Maintenance Greater than 01 indicates the 21 - Blowback Data Substitution Method used 22 - Analyzer Under/Over Range 99 - Software Adjust
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	14 - Recalibration 19 - Sample Interface Malfulate 15 - Preventive Maintenance 20 - Corrective Maintenance 21 - Blowback 2er 17 - Ancillary Analyzer Malfunction 22 - Analyzer Under/Over R 18 - Data Handling System Malfunction 98 - Automatic Calibration 99 - Software Adjust
	g Codes: justment Not Made Primary Aralyzer Ancillary Analyzer vn
	MC - Monitoring 06 - Clean Process Equipment 00 - Data Valid Malfunction 07 - Clean Control Equipment 10 - Required Ac 08 - Normal Operation 11 - Excess Drift 09 - Other 13 - Process Dov
	Pro- Process Codes: 01- Changing Fuels 02 - Control Equipment Malfunction 07 03 - Startup 04 - Shutdown 05 - Process Down Rannet aninted an 177/17/03 10.01.05

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		n. Factor 0 1800			F16 78	P75 - Method Codes: 01 - Primary Monitoring System Greater than 01 indicates the Data Substitution Method used
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near Input NOx lb/mBtu	Adj. Mthd Avail	222.0 0.589 01 0.0 1.000 232.0 0.587 01 0.0 1.000	0.625		•	MC - Monitoring Codes: 00 - Data Valid 10 - Required Adjustment Nr 11 - Excess Orfit Primary An 12 - Excess Onfit Ancillary Ar 13 - Process Down C:\CEMLink
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	Date Hour PC (Hr)	80 5 6	Report Average:	Report Max Values:	.*	PC - Process Codes: 01 - Changing Fuets 02 - Control Equipment Malfunction 07 - Clean Process Equipment 03 - Startup 04 - Shutdown 05 - Process Down Report printed on: 07/17/03 10:21:05

NBP CEM: Hourly Data Summary

Period: 07/16/03 00:00:59 To 07/17/03 23:59:59, Records = 34

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Note			mdd.	317.4	321.8	338.9	341.9	337.3	352.9	464.6	357.1	317.4	277.9	274.3	276.6	282.4	283.4	284.8	281.9	275.7	281.1	282.1	280.4	282.0	285.8	289.6	276.7	277.9	282.0	283.6	284.6	287.5	293.6	297.2	296.5	
Note			Bias	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	000.1	000.	900	000	000	000	000	000	000	000	000	80.	8	000	000	8	8	8	8	00	000	
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P75 - Method Codes: 19 - Sample Interface Malfunction 01 - Primary Monitoring System 20 - Corrective Maintenance Greater than 01 indicates the 21 - Blowback Data Substitution Method used 22 - Analyzer Under/Over Range
14 - Recalibration 19 - Sample Interface Maintenance 15 - Preventive Maintenance 16 - Primary Analyzer Malfunction 17 - Ancilary Analyzer Malfunction 18 - Data Handling System Malfunction
Codes: Istment Not Madi Primary Aralyzer Ancillary Analyzer
MC - Monitoring 06 - Clean Process Equipment 00 - Data Valid alfunction 07 - Clean Control Equipment 10 - Required Adji 08 - Normal Operation 11 - Excess Drift A 13 - Process Down
01 Changing Fuels 02 Control Equipment M 03 Startup 04 Shutdown 05 - Process Down

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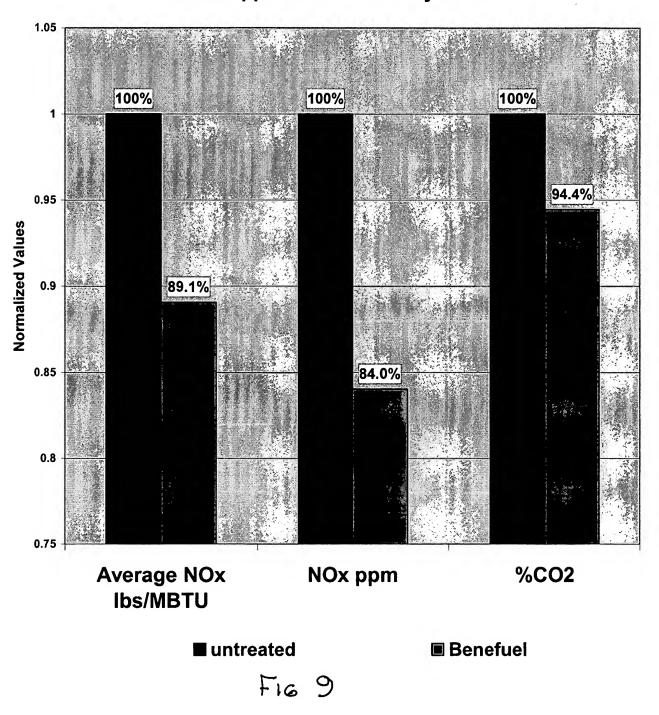
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n 22 - Analyzer Under/Over Range votion 98 - Automatic Calibration

99 - Software Adjust

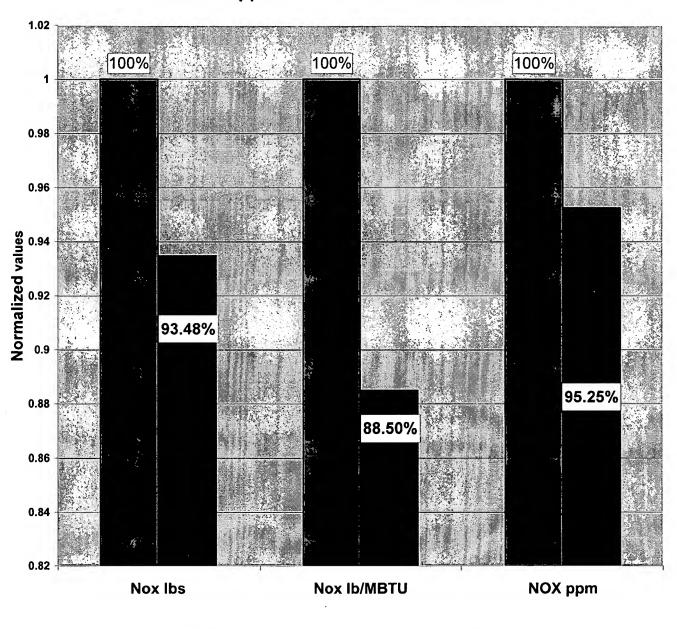
Benefuel Product Performance Coal Based Synfuel

Produced by Chemical Change Reagent J-316
Pulverized Coal-Fired Boiler
0.92% Application Rate July 2003



Benefuel Product Performance Coal Based Synfuel

Produced by Chemical Change Reagent J-316
Pulverized Coal-Fired Boiler Low NOX Burner
0.92% Application Rate November 2003



Untreated

■ Treated

FIG 10

Table I.

Test	Burner	Tons of Coal Treated	Treatment Location	Application Rate	Benefuel Product
July 2003	Standard	136	Utility plant coal yard	0.8 wt%	67%
November 2003	Low-NOx	400	Norton, VA	0.9 wt%	53%

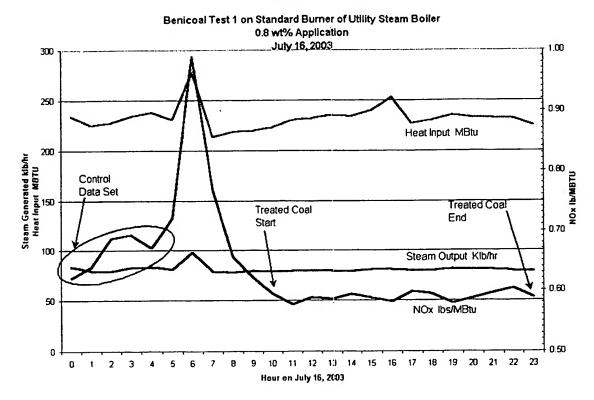
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Table II

	Average						
	Steam	Average	Average	Stack			Average Coal
	Generated	NOx	Heat Input	Flow	NOx		Consumption
Data Set	k lb/hr	lbs/MBTU	MBTU/hr	SCFH	ppm	% CO2	Tons/hr
Control	82.0	0.662	232	3874800	332	10.8%	9.7
Benefuel	80.2	0.590	233	4091857	279	10.2%	9.7
Change %	-2.20%	-10.95%	0.43%	5.60%	-15.96%	-5.56%	0.00%

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Figure 1.



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Table III

	Average						
1	Steam	Average	Average	Stack			Average Coal
	Generated		Heat Input		NOx		Consumption
Data Set	k lb/hr	lbs/MBTU	MBTU/hr	SCFH	ppm	% CO2	Tons/hr
Untreated	110.4	0.426	160.74	2739600	209.4	10.6	6.5
Treated	117	0.377	169.75	2686500	199.5	11.4	
	5.6%	-12.9%	5.3%	-2.0%	-5.0%	7.2%	5.3%

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